

031204

17157 U.S. PTO

Attorney Docket No.  
PATENT

SAM-0541

22141 U.S. PTO  
101799323  
031204IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Dae-woong Kim and Soo-woong Lee

For (title): APPARATUS AND METHOD FOR  
 DETECTING FRAME  
 SYNCHRONIZATION SIGNAL FOR  
 REDUCING ERRORS IN DATA  
 DEMODULATION IN OPTICAL  
 DISC SYSTEM

1. **Type of Application** This new application is for  
 a(n)

- ☒ Original (nonprovisional)  
☐ Design  
☐ Plant  
☐ Divisional.  
☐ Continuation.  
☐ Continuation-in-part (C-I-P).

2. **Benefit of Prior Application(s)**

- ☒ The new application being transmitted claims the benefit of prior Korean application nos. 03-16491.  
 See Item 7.

3. **Papers Enclosed**

15 Pages of specification

4 Pages of claims

1 Page of Abstract

9 Sheets of drawings

☒ formal

☐ informal

       Page of Cover Sheet

- ☐ The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).

**CERTIFICATE OF MAILING****37 C.F.R. § 1.10**

"Express Mail" Mailing Label Number EV322657463US

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Date: 3/12/04

*Christopher J. Hren*  
 Christopher J. Hren

*CHRISTOPHER HREN*  
 Print Name

4. Additional papers enclosed

- ☐ Preliminary Amendment
- ☐ Information Disclosure Statement (37 C.F.R. 1.98)
- ☐ Form PTO-1449 (PTO/SB/08A and 08B)
- ☐ Copies of cited references
- ☐ Declaration of Biological Deposit
- ☐ Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.
- ☐ Authorization of Attorney(s) to Accept and Follow Instructions from Representative
- ☐ Special Comments
- ☒ Other: Return Postcard.

5. Declaration or oath

- ☒ Enclosed
  - ☐ Unexecuted
  - ☒ Executed by
    - ☒ inventors
    - ☐ legal representative of inventor(s).  
37 CFR 1.42 or 1.43.
    - ☐ joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.
    - ☐ This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 12 below for fee.
- ☐ Not Enclosed
- ☐ Application is made by a person authorized under 37 C.F.R. 1.41 (c) on behalf of all the above named inventor(s).
  - ☐ Showing that the filing is authorized.

6. Assignment

- ☒ An assignment of the invention to Samsung Electronics Co. Ltd.
  - ☒ is attached. A separate ☐ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☒ FORM PTO 1595 is also attached. will follow.

7. **Certified Copy**

Certified copy(ies) of application(s)

<u>Korea</u>	<u>03-16491</u>	<u>March 17, 2003</u>
Country	Appln. no.	Filed
Country	Appln. no.	Filed
Country	Appln. no.	Filed

from which priority is claimed

☒ is (are) attached.

☐ will follow.

8. **Fee Calculation (37 C.F.R. 1.16)**

CLAIMS AS FILED				
	Number filed		Number Extra	Rate
				Basic Fee 37 C.F.R. 1.16(a) <b>\$770.00</b>
Total				
Claims (37 CFR 1.16(c))	6	- 20 =	0	\$ 18.00
Independent				
Claims (37 CFR 1.16(b))	2	- 3 =	0	\$ 86.00
Multiple dependent claim(s), if any (37 CFR 1.16(d))			+	\$290.00

☐ A Preliminary Amendment is enclosed. The filing fee is calculated based on the status and number of claims remaining after entry of the Preliminary Amendment.

☐ Amendment deleting multiple-dependencies is enclosed.

☐ Fee for extra claims is not being paid at this time.

Filing Fee Calculation \$770.00

**9. Fee Payment Being Made at This Time**

☐ Not Enclosed

☐ No filing fee is to be paid at this time.

*(This and the surcharge required by 37 C.F.R. 1.16(e) can be paid subsequently.)*

☒ Enclosed

☒ Basic filing fee \$ 770.00

☒ Recording assignment  
(\$40.00; 37 C.F.R. 1.21(h))  
(See attached "COVER SHEET FOR ASSIGNMENT  
ACCOMPANYING NEW APPLICATION".) \$ 40.00

**Total fees enclosed** **\$ 810.00**

**10. Method of Payment of Fees**

☒ Checks in the amounts of \$ 770.00 & 40.00

☐ Charge Account No. 50-1798 in the amount of \$ \_\_\_\_\_  
A duplicate of this transmittal is attached.

**11. Authorization to Charge Additional Fees**

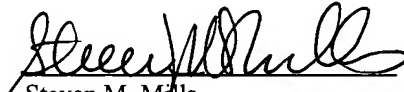
- ☒ The Commissioner is hereby authorized to charge the following additional fees during the entire pendency of this application to Account No. 50-1798.
- ☒ 37 C.F.R. 1.16(a), (f) or (g) (filing fees)
  - ☒ 37 C.F.R. 1.16(b), (c) and (d) (presentation of extra claims)
  - ☐ 37 C.F.R. 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
  - ☐ 37 C.F.R. 1.17 (application processing fees)
  - ☐ 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b))

**12. Instructions as to Overpayment**

- ☒ Credit Account No. 50-1798
- ☐ Refund

Date: March 12, 2004  
MILLS & ONELLO LLP  
Eleven Beacon Street, Suite 605  
Boston, MA 02108  
Telephone: (617) 994-4900  
Facsimile: (617) 742-7774

Respectfully submitted,

  
Steven M. Mills  
Registration Number 36,610  
Attorney for Applicants

17157 U.S. PTO  
031204

PATENT  
Attorney Docket No. SAM-0541  
Customer No.: 29344

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Dae-woong Kim, et al.  
Filing Date: Herewith  
Title: APPARATUS AND METHOD FOR DETECTING FRAME  
SYNCHRONIZATION SIGNAL FOR REDUCING ERRORS IN DATA  
DEMODULATION IN OPTICAL DISC SYSTEM

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.10

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3/12/04

Date



Christopher J. Hren

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

TRANSMITTAL LETTER

Sir:

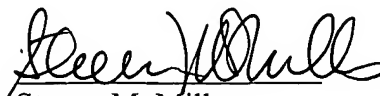
Enclosed herewith for filing in the above-identified patent application please find the following listed items:

1. New Application Transmittal;
2. New Patent Application;
3. Executed Declaration, Petition and Power of Attorney;
4. Nine (9) Sheets of Formal Drawings (Figures 1-10);
5. Certified Copy of Priority Document - Korean Application No. 03-16491;
6. Check in the amount of \$770.00 to cover application filing fee;
7. Assignment Recordation Form Cover Sheet - - PTO-1595;
8. Executed Assignment;
9. Check in the amount of \$40.00 to cover Assignment recordation fee; and
10. Return Postcard.

In connection with the foregoing matter, please charge any additional fees which may be due, or credit any overpayment, to Deposit Account Number 50-1798. A duplicate copy of this letter is provided for this purpose.

Respectfully submitted,

Date: March 12, 2004  
Mills & Onello LLP  
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